

"Method for Ligating Nucleic Acids and Molecular Cloning"

ABSTRACT

The invention provides methods of covalently joining nucleic acid molecules and methods of molecular cloning. The methods provide either sequential or simultaneous ligation of flanking or vector nucleic acid molecules to nucleic acid insert molecules by topoisomerase and DNA ligase. The methods provide for directional and non-directional covalent joining and cloning of nucleic acid molecules.